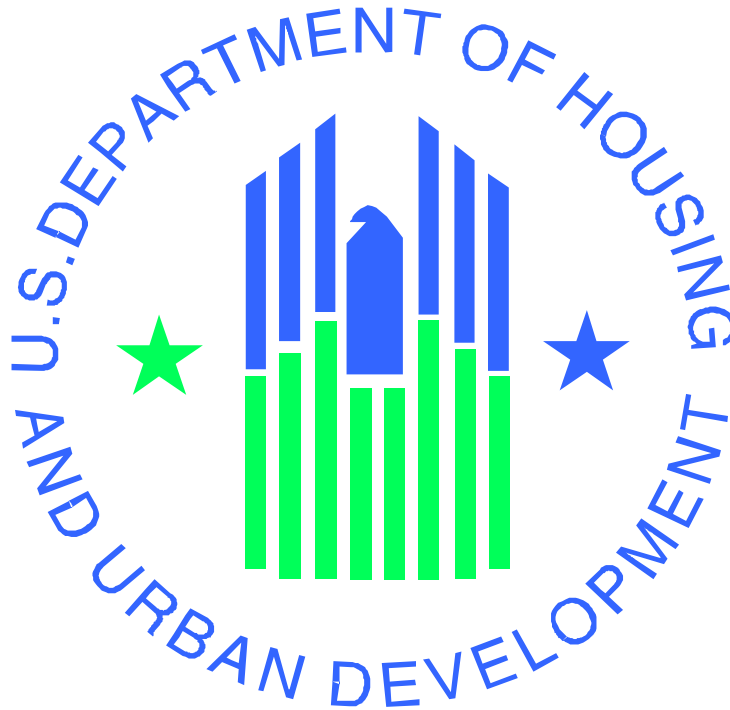


***US Department of Housing and Urban Development
Public and Indian Housing – Real Estate Assessment Center
(PIH-REAC)***

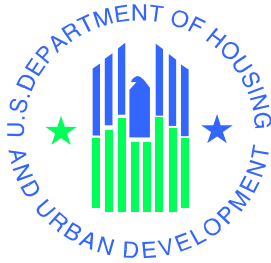


SDM Initiate Phase Feasibility Study Document

for the

**Financial Assessment Subsystem – Public Housing
(FASS PH)**

System:	REACS
Subsystem:	FASS-PH
Release:	Release 8.1.0.0
Database Release:	REACS
Doc Type:	SDM Initiate Phase Feasibility Study Document
Doc Date:	08/26/2005
Doc Status	Final
Doc Author:	Avineon Inc
Doc Number:	1.4



FEASIBILITY STUDY

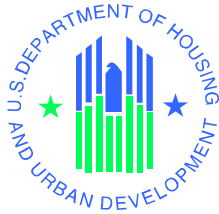
*Financial Assessment Subsystem - Public Housing
(FASS-PH)*

U.S. Department of Housing and Urban Development

June 14, 2005

Revision Sheet

Release No.	Date	Revision Description
Rev. 1.0	05/26/2005	Document Updated for Releases 8.1.0.0.
Rev. 1.1	06/06/2005	Revised by QA Manager for SDM Compliance
Rev 1.2	06/14/2005	Revised by Analyst to incorporate QA changes
Rev 1.3	06/21/2005	Revised by Analyst to incorporate new requirements/Peer Review
Rev 1.4	06/30/2005	Revised by analyst to incorporate IT Manager's Comments



Requirement Traceability Matrix

I have carefully assessed the Feasibility Study for the FASS-PH subsystem. This document has been completed in accordance with the requirements of the HUD System Development Methodology.

MANAGEMENT CERTIFICATION - Please check the appropriate statement.

_____ The document is accepted.

_____ The document is accepted pending the changes noted.

_____ The document is not accepted.

We fully accept the changes as needed improvements and authorize initiation of work to proceed. Based on our authority and judgment, the continued operation of this system is authorized.

Freddie Harrison
FASS-PH IT Manager

DATE

Nicholas Miele
FASS-PH Business Program Manager

DATE

FEASIBILITY STUDY

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1.0 GENERAL INFORMATION

1.0 General Information

1.0 GENERAL INFORMATION

1.1 Purpose

This document describes the feasibility for the proposed development for release 8.1.0.0 FASS-PH funding.

1.2 Scope

The scope of the Release 8.1.0.0 is determined by requirements documented in the Release 8.1.0.0 Statement of Work.

These requirements are displayed in a table format. The column header, “#”, indicates the sequential order of the requirements. The column header, “Req. #”, indicates the requirement number noted in Release 8.1.0.0 Statement of Work Document. The column header, “Title” and “Description”, are self-explanatory.

Requirement Table			
Cap. #	Req. #	Title	Description
1	2	Line Item G3000-010	First, the DCF/Financial Statement/G3000-010 Type of Audit Report/G3000-060 & 070 will now reflect Fund Type and Opinion of the Fund rather than Program. Auditors should only be entering opinion for funds within the PHA.
2	3	View Prior Fiscal Year Submission Comments	Allow analysts to review prior year submission comments while still reviewing the current FYE submission. This will allow the analyst to review prior submission comments without navigating between multiple submissions.
3	4	Line Item G4200-010 & G4200-050	Modify Line Item 4200-050 to default to “N/A”; if and only if Line Item 4200-010 is selected “No” for Non-Major Programs audited A133, there will be no penalty when this opinion is selected.
4	5	Line Item G1102	New logic will be in place, so that the external user will not be able to enter any amount on Line Item G1102. This new methodology should begin for all 9/30/2005 submissions.
5	6.2	FASS Analyst Column	Modify the FASS Analyst column for the external user inbox only to display the name of the Business Manager or Analyst.
6	6.7	FDS Report	Repair the FDS report page to print correctly from MS Internet Explorer.
7	7.1	Storing Assessment Attachments	Change the storage of permanent file attachments from being part of the UNIX /Windows file system to being stored as Binary Large Objects (BLOB's) in the database. All file attachments need to be stored and retrieved on the REACS database.
8	7.2	HTTPS on port 443 (default)	Remove any instances of http port in ColdFusion templates and replace http port with the relative server.
9	7.7	WASS – Guest Checkbox	WASS will remove the guest checkbox on the Login interface. Have the system automatically recognized a guest user.
10	7.9	Remove Identity Type from the Participant Assessment Table.	Remove identity attribute from the column definition in the assessment table and replace the attribute with a stored procedure to find the sequential primary key value.
11	7.10	LOCCS/UDCAPS Storing Data.	Remove storing Line of Credit Control System/ HUD Central Accounting Processing System (LOCCS/UDCAPS) data in permanent tables and pipe the HOCCS/UDCAPS data directly into the REAC database.

1.0 General Information

Requirement Table			
Cap. #	Req. #	Title	Description
12	8	Alter Financial Review Instructions	On the Review Submission Page under the Financial Statement tab the instructions need to be modified. The first bullet of the instructions will be separated into two distinct bullets. The first bullet will read, "Government-Wide Financial Statements, If Applicable." The second bullet will read, "Fund Financial Statements."

1.3 System Overview

The FASS-PH is a subsystem of the Real Estate Assessment Center System (REACS). FASS-PH will help enable centralized financial analysis that can be used to identify where HUD should focus its limited resources to improve service delivery and manage its housing programs proactively. To achieve this goal, the following objectives have been identified:

- Gather standard financial data pertaining to each Public Housing Agency (PHA) and Section 8 Entity by combining standard fiscal audit information with reporting and compliance factors as defined by the Single Audit Act;
- Assess the financial condition of all PHAs and Section 8 Entities using a comprehensive protocol;
- Assess financial risk using standard financial data;
- Determine an objective, numerical score for each PHA and Section 8 Entity using standard protocols for financial performance review;
- Enable HUD staff to focus on the most troubled PHAs and Section 8 Entities based on the risk associated with the score;
- Eliminate or address existing material weaknesses identified through IG Audits. This includes mitigating potential risks;
- Support HUD's mission;
- Implement OMB Circular A-123 compliant policies and procedures;
- Support HUD's eGov Strategic Plan;
- Automate paper based forms to support the Government Paperwork Elimination Act (GPEA);
- Provide payback as early in the system lifecycle as possible;
- Provide significant benefits to HUD;
- All new functionality meets the Rehabilitation Act Section 508 requirements.

1.0 General Information

System Overview Table	
System and Subsystem Description	
System	Real Estate Assessment Center System (REACS)
Subsystem	Financial Assessment Subsystem - Public Housing (FASS-PH)
Responsible Party Description	
Sponsor	Public and Indian Housing – Real Estate Assessment Center (PIH-REAC)
Requirements	Avineon Inc.
Design	Avineon Inc.
Development	Avineon Inc.
System and Integration Testing	Avineon Inc., DCG
User Acceptance Testing	To be determined by PIH-REAC Management
Deployment	Avineon Inc., DCG
Maintenance	Avineon Inc., DCG
System Environment, Code, and Category: and Operational Status Description	
PCAS	307820
System Code	P093
System Category	Non-Major
Operational Status	Operational
System Environment	Web Based

1.4 Project References

The following documents are available to provide a comprehensive understanding of the PHA financial assessment process. Most documents are available via the REAC Document Library, PVCS Version Manager. Additionally, several of the documents listed below are available through the PHA Financial Assessment Internet site at <http://www.hud.gov/offices/reac/products/prodpha.cfm>.

References Table	
Document Name	Date
FASS-PH 8.1.0.0	
FASS-PH Release 8.1.0.0 SDM Initiate Phase – Needs Statement Document	06/10/2005
FASS-PH 7.3.0.0	
FASS-PH Release 7.3.0.0 SDM Initiate Phase – Feasibility Study Document	03/23/2003
Policies	
PHAS: Physical Condition Scoring Process and Financial Condition Scoring Process	10/21/2003
Changes to the Public Housing Assessment System (PHAS); Proposed Rule, 24 CFR Part 902	02/06/2003
PHAS; Notice Adopting Interim Scoring Methodologies for PHAS Physical Condition and Financial Conditions Indicators	03/15/2002
PHAS Information About PHAS Interim Scoring Methodology for PHAs With Fiscal Years Ending On or After September 30, 2001: Introduction; Notice	11/26/2001
PHAS; Financial Condition Scoring Process Notice	12/21/2000
PHAS Financial Condition Scoring Process	06/28/2000
Uniform Financial Reporting Standards: 24 CFR Part 5, et al	03/27/2000
Technical Correction to PHAS Final Rule	06/06/2000
Public Housing Assessment System (PHAS) Amendments; Final Rule,” 24 CFR Part 902	01/11/2000
PHAS Proposed Amendments to 24 CFR Part 902	06/22/1999
Public Housing Assessment System; Financial Condition Scoring Process Notice	06/23/1999

1.0 General Information

References Table	
Document Name	Date
Uniform Financial Reporting Standards for HUD Housing Programs; Final Rule,” 24 CFR Part 5, et al	09/1/1998
Public Housing Assessment System Final Rule,” 24 CFR Parts 901 and 902	09/1/1998
Additional References	
OMB: “Information Collection; Request for Public Comments	08/15/2003
Federal Audit Clearinghouse (FAC) Summary of Proposed Changes to the Data Collection Form (SF-SAC)	08/15/2003
Draft Data Collection Form (SF-SAC) for Fiscal Year Ending Dates in 2004, 2005, or 2006	08/15/2003
Instructions for Completing Form SF-SAC, ... for Fiscal Periods Ending in 2004, 2005, or 2006	08/15/2003
Summary of Changes to SF-SAC	11/16/2000
Financial Data Schedule Line Definitions and Crosswalk Guide	09/14/2001
HUD PHA GAAP Conversion Guide,” 01/31/2000.	N/A
Detailed System Requirements Document for the AFS Version 2.0.”	N/A
Annual Financial Data Submission Requirements for the AFS Version 2.0.”	N/A
Addendum to the Data Standardization Results for the AFS Version 2.0.”	N/A
System Development Methodology Release 6.01,” January 2000.	N/A
Preliminary Scoring Methodology and Thresholds for Financial Indicators	06/30/1999
Financial Indicators Methodology & Analysis Guide	12/14/1999
PHA Financial Assessment Lab Financial Assessment Operations Design and Procedures	03/31/1999
Financial Assessment Lab – Business Process Documentation and Flow Maps	09/21/1999
PHAS Appeals Business Process	11/28/2000
HUD Business Resumption Plan	10/2000

1.5 Acronyms and Abbreviations

The following table defines terms and acronyms used throughout this document.

Term	Definition
ACWP	Actual Cost of Work Performed
APP	Annual Performance Plan
BCWP	Budgeted Cost of Work Performed
BCWS	Budgeted Cost of Work Scheduled
BRD	Business Requirements Document
CCB	Change Control Board
CCD	Change Control Board
CDR	Critical Design Review
CFDA	Catalog of Federal Domestic Assistance
CI	Configuration Item
CIO	Chief Information Officer
CLIN	Contract Line Item Number
CM	Configuration Management
CMM	Capability Maturity Model
CMMI	Capability Maturity Model Integrated
CMP	Configuration Management Plan
CO	Contracting Office
COR	Contracting Office Representative
COTS	Commercial Off The Shelf

1.0 General Information

Term	Definition
CPI	Cost Performance Index
CR	Change Request
CSCI	Computer Software Configuration Item
CV	Cost Variance
DB	Database
DCF	Data Collection Form
DCG	Development Coordination Group
DMM	Deliverable Management Module
DOA	Date of Award
DR	Design Review
EAC	Estimate At Completion
EIN	Employer Identification Number
ETC	Estimate To Complete
EV	Earned Value
EVA	Earned Value Analysis
EVM	Earned Value Management
FASS	Financial Assessment Subsystem
FASS-PH	Financial Assessment Subsystem – Public Housing
FCA	Functional Configuration Audit
FDS	Financial Data Schedule
FEDSIM	Federal Systems Integration and Management Center
FOIA	Freedom Of Information Act
FQR	Formal Qualification Review
FRD	Functional Requirements Document
FY	Fiscal Year
FYE	Fiscal Year End
GAAP	Generally Accepted Accounting Principles
GAGAS	Generally Accepted Government Auditing Standards
GAO	Government Accounting Office
GASB	Governmental Accounting Standards Board
GPEA	Government Paperwork Elimination Act
GSA	General Services Administration
GTM	Government Technical Monitor
HA(s)	Housing Authority
HTML	Hypertext Markup Language
HUD	Department of Housing and Urban Development
HUD OIG	HUD Office of Inspector General
HUDCAPS	HUD Central Accounting Processing System
HUDWeb	HUD's Intranet Web Site
ICD	Interface Control Deliverable
IG	Inspector General
IG	Inspector General
IPA	Independent Public Accountant
IPR	In Progress Reviews
ISG	Internet Services Group

1.0 General Information

Term	Definition
IT	Information Technology
IV&V	Independent Verification & Validation
JAD	Joint Application Development
LOCCS	Line of Credit Control System
LPF	Late Presumptive Failure
MF	Multi-Family
NASS	Integrated Assessment Subsystem
NDS	Non-Developmental Software
ODC	Other Direct Costs
OMB	Office of Management and Budget
PASS	Physical Assessment Subsystem
PCA	Physical Configuration Audit
PD&R	Policy Development and Research
PDR	Preliminary Design Review
PH	Public Housing
PHA	Public Housing Agency/Public Housing Authority
PHAS	Public Housing Assessment System
PIH	Public and Indian Housing
PIH-REAC	Public Indian Housing - Real Estate Assessment Center
PM	Project Manager
PMC	Project Monitoring and Control
PMP	Project Management Plan
PNR	Problem Notification Report
POC	Points of Contact
PP	Project Plan
PP&O	Project Planning & Oversight
PPQA	Product &Process Quality Assurance
PR	Problem Reports
PRR	Product Readiness Review
QA	Quality Assurance
QAG	Quality Assurance Guidelines
QAP	Quality Assurance Plan
QASS	Quality Assessment Subsystem
RAF	Risk Analysis Form
RASS	Residential Assessment Subsystem
REAC	Real Estate Assessment Center
REACS	Real Estate Assessment Center System
RM	Risk Management
RR	Requirements Review
SAC	PHAS invalidation action code
SCI	Software Configuration Item
SCR	Software Change Request
SDD	Software Design Description
SDF	Software Development File
SDL	Software Development Library

1.0 General Information

Term	Definition
SDM	Software Development Methodology
SDP	System Decision Paper
SDR	Software Design Review
SMP	Software Measurement Plan
SOW	Statement Of Work
SPI	Schedule Performance Index
SQA	Software Quality Assurance
SQL	Standard Query Language
SR	Specification Review
SRS	Software Requirements Specification
SSDD	System/Subsystem Specification
SSR	Software Specification Review
SSS	System/Subsystem Specification
SV	Schedule Variance
SW	Software
TAC	Technical Assistance Center (formerly the Customer Service Center)
TBD	To Be Defined
TOR	Task Order Request
TOS	Tracking & Ordering System
TRB	Technical Review Board
TRR	Test Readiness Review
UAT	User Acceptance Testing
UDF	Unit Development Folder
UFI	Unique Fee Accountant Identifier
UFRS	Unified Financial Recording Standards
UII	Unique IPA Identifier
WASS	Web Access Security System
WBS	Work Breakdown Structure
WDDX	Web Dynamic Exchange
XML	eXtensible Mark-up Language

1.6 Points of Contact

1.6.1 Information

The following table lists Points of Organizational Contact (POC's). The following table lists Points of Organizational Contact (POC's).

Points of Organizational Contacts Table				
Contact Name	Organization	Position	Telephone Number	Email
Nick Miele	PIH-REAC	FASS-PH Business Program Manager	202-475-8788	Nicholas_X_Miele@hud.gov
Steve Bolden	PIH-REAC	FASS-PH Assessment Manager for Systems Operations	202-475-8706	Steve_A_Bolden@hud.gov

1.0 General Information

Points of Organizational Contacts Table				
Contact Name	Organization	Position	Telephone Number	Email
Freddie Harrison	PIH-REAC	FASS-PH IT Manager	202-475-8639	Frieddie_Harrison@hud.gov
Keith Bennett	Avineon Inc.	Project Manager	202-475-8903	Keith_Bennett@HUD.gov
Joneff Chung	Avineon Inc.	FASS-PH Requirements Lead	202-475-8889	Joneff_Chung@HUD.gov
Surafiel Berek	Avineon Inc.	FASS-PH Development Lead	202-475-8828	Surafiel_Berek@HUD.gov
Mohammed Hasan (Ashraf)	Avineon Inc.	FASS-PH Maintenance Lead	202-475-8898	Mohammed_A.Hasan@HUD.gov

1.0 General Information

1.6.2 Coordination

FASS-PH will coordinate with the following organizations to successfully implement the FASS-PH functionality:

Coordination Table	
Organization	Support Function
PIH-REAC	Business Requirements Support, Project Management
Avineon	Requirements, Design, Development, Testing, Installation, Deployment, Maintenance, Technical Support /Operations, Project Management
DCG	Customer Support/Operations, Development Coordination, Integration Test Coordination, Deployment, and Maintenance
HUD IT	Implementation Coordination
FASS-PH Lab	Business Requirements Support
WASS	Web-based Systems Security
NASS	PHAS Integrated Scoring
QASS	IPA referral information

1.7 Scoring Criteria

The following table addresses the CIO Feasibility Study scoring criteria.

Evaluation Criteria	Assessment
Does the initiative depend on another project or initiative?	There are no foreseen or predicted impacts on the FASS-PH schedule for FASS-PH to be successful. All dependencies with other initiatives have been successfully implemented in previous releases. The project may have dependency on products from the business contractor, but these products are under the control of the FASS-PH management team.
Was a business process improvement analysis conducted prior to considering this initiative?	A business process improvement analysis was conducted and documented. This documentation comprises of the following documents: <ul style="list-style-type: none"> • “PHA Financial Assessment Lab Financial Assessment Operations Design and Procedures,” 03/31/1999. • “Preliminary Scoring Methodology and Thresholds for Financial Indicators,” 06/30/1999. • “Financial Assessment Lab – Business Process Documentation and Flow Maps,” 09/21/1999. • “Financial Indicators Methodology & Analysis Guide,” 12/14/1999.
Is the proposed technology consistent with the organization's technical standards?	FASS-PH is fully compliant with the organization's standards and utilizes the HUD Enterprise Architecture.
How well does the initiative address the Program Area priorities?	The initiative supports PIH program area priorities. All proposed capabilities are reviewed with PIH to verify they are a program area priority prior to the system lifecycle effort.

2.0 Management Summary

2.0 MANAGEMENT SUMMARY

2.0 Management Summary

2.0 MANAGEMENT SUMMARY

2.1 Environment

2.1.1 Organization Involved

Role	Organization
Project Sponsor	Public and Indian Housing – Real Estate Assessment Center (PIH-REAC)
Developer	Avineon Inc.
Users	PIH-REAC, PIH, PD&R
Computer Network	HUD Internet/Intranet

2.1.2 Input/Output

The following tables distinguish which proposed FASS-PH FY 2005 capabilities are inputs, which are outputs, and which are both. Inputs and Outputs for previous fiscal years are provided in the system Define Phase documentation.

Capability		Input / Output
Release 8.1.0.0		
1	Line Item G3000-010	Input/Output
2	View Prior Fiscal Year Submission Comments	Input/Output
3	Line Item G4200-010 & G4200-050	Input/Output
4	Line Item G1102	Input/Output
5	FASS Analyst Column	Output
6	FDS Report	Output
7	Storing Assessment Attachments	Input
8	HTTPS on port 443 (default)	Input/Output
9	WASS – Guest Checkbox	Input/Output
10	Remove Identity Type from the Participant Assessment Table.	Input
11	LOCCS/HUDCAPS Storing Data	Input
12	Alter Financial Review Instructions	Output

2.1.3 Processing

The following criteria were used to determine the FASS-PH architecture:

- The system must be made available 24 hours per day, except for scheduled maintenance downtime
- The system must be available over the Internet, with little or no user constraints. However, the Internet Browser used must be Internet Explorer 5.5 or higher
- The system must be able to interface seamlessly with the NASS, QASS, and WASS systems
- The system must be available to anyone at HUD without the need to install client software

2.1.4 Security

FASS-PH security requirements are documented in the FY2005 Risk Analysis, as well as the FASS-PH Security Assessment documents.

2.0 Management Summary

2.1.5 System Interaction

FASS-PH interacts with NASS, QASS, and WASS. These interactions are described below and documented further in the FASS-PH Define and Design Phase documents.

System	Interaction
NASS	FASS-PH provides scoring information that is posted by NASS. FASS and NASS also work in concert to provide extension and appeal functionality. NASS also provides manual submission functionality, invalidations, score adjustments, late presumptive failure processing, and automated FASS-PH correspondence.
QASS	QASS provides Unique Independent Public Accountant (IPA) Identifier (UII) information to FASS-PH. A UII must be attached to each audited submission to track what IPAs are a risk to HUD due to the volume of business they do with HUD. FASS-PH also passes referrals back to QASS to allow QASS to schedule reviews of IPAs or PHAs by the QASS team. QASS Assessment Managers and Directors can access the FASS-PH system to process referrals.
WASS	WASS provides security services to FASS-PH. These services allow users to enter the system through the HUD firewall to conduct business.

2.1.6 Physical Environment

The system uses the HUD and PIH-REAC Enterprise Architectures to provide data capture and reporting over the Internet using a Web farm. The specifications for the Web farm are provided below. This will be further detailed in the FASS-PH 8.1.0.0 Design Phase Documents.

SW/HW	Hudapps 5	Hudapps 6	Hudapps 8	Hudapps 9	Hudapps 10	Hudapps 11	Hudapps 12	Hudapps 13
OS	Solaris 8							
Application server	Macromedia's ColdFusion 5.0							
Web Server	IPlanet Web server 6.0.2							
Cluster S/W	Interwoven's TeamSite 5.5.2 & OpenDeploy 5.5.1							
LDAP	Netscape Directory Server 4.1.6SP1	Netscape Directory Server 4.1.6SP1	Netscape Directory Server 4.1.6SP1	Netscape Directory Server 4.1.6SP1	None	None	None	None
Machine Type	Sun Enterprise 3500	Sun Enterprise 3500	Sun Enterprise 450	Sun Enterprise 3500	Sun Enterprise 420R	Sun Enterprise 420R	Sun Enterprise 420R	Sun Enterprise 420R
CPU	4X336 MHz	4X336 MHz	4X400 MHz	2X336 MHz	4X450 MHz	4X450 MHz	4X450 MHz	4X450 MHz
RAM	1GBRAM	1GBRAM	1GBRAM	1GBRAM	4GB RAM	4GB RAM	4GB RAM	4GB RAM
HDD	8X9GB	8X9GB	36GB	2X9GB 1X18GB	2X38GB local, SAN	2X38GB local, SAN	2X38GB local, SAN	2X38GB local, SAN

2.0 Management Summary

2.2 Current Functional Procedures

The functional procedures are documented in the "Business Process Documentation and Flow Maps" document. The FASS-PH Define Phase documents also provide further procedural documentation.

2.3 Functional Objectives

The table below analyzes the anticipated functions of the system, considering such areas as increased capacity, legislative and policy requirements, privacy and security requirements, audit controls, and target completion date. The capability number corresponds to the capability number provided in Section 1.2, Scope.

Cap. #	Increased Capacity	Legislative and Policy Requirements	Privacy & Security	Audit Controls	Target Completion Date
Release 8.1.0.0 (August 26, 2005)					
1	Yes	No	Yes	No	08/26/2005
2	Yes	No	Yes	No	08/26/2005
3	Yes	No	Yes	No	08/26/2005
4	Yes	No	Yes	No	08/26/2005
5	No	No	Yes	No	08/26/2005
6	Yes	No	Yes	No	08/26/2005
7	No	Yes	Yes	No	08/26/2005
8	No	Yes	No	No	08/26/2005
9	No	No	Yes	No	08/26/2005
10	No	Yes	Yes	No	08/26/2005
11	No	Yes	Yes	No	08/26/2005
12	No	No	No	No	08/26/2005

2.4 Performance Objectives

The performance objectives will be listed in the FASS-PH 8.1.0.0 Define and Design Phase Documents.

2.5 Assumptions and Constraints

The following assumptions and constraints address the operational life of the proposed system; period of time for comparison of system alternatives; input, output, and processing requirements; financial constraints; changing hardware, software, and operating environment; and availability of information and resources.

Assumptions and Constraints	
Considerations	Assessment
Operational Life of the Proposed System	8 years or more.
Period of time for comparison of system alternatives	4 years
Interaction of the proposed system with other systems and organizations	The FASS-PH system interfaces with QASS and NASS. The system also retrieves information from LOCCS/UDCAPS system.

2.0 Management Summary

Assumptions and Constraints	
Considerations	Assessment
Input, Output and Processing Requirements	The list of FASS-PH high level inputs includes: Financial Data Schedule information, Data Collection Form information, Extension Request information, Manual Submission Request information, Notes and Findings information, Reviewer information and Unaudited submissions via XML interface. The list of FASS-PH high level outputs includes: Financial reports, REAC Management Reports, Referrals to the QASS subsystem, FASS-PH Submission Scores and FASS-PH Submission Risk Level Assessment.
Financial Constraints	The completion of all development activities is contingent on the receipt of development funds.
Legislative and Policy Constraints	FASS-PH is necessary in order to support PHAs meeting HUD's PHAS Rule and UFRS Rule requirements. FASS-PH also addresses the BOP and APP.
Changing hardware, software and operating environment	The HUD ISG/CSG maintains the hardware, software and operating environments. Any planned changes are brought forth in the PIH-REAC CCB setting, and scheduled by the PIH-REAC DCG.
Availability of information and resources	8 years or more; Reference Define Phase and Design Phase deliverables for procedures.

2.6 Methodology

The team is using the evaluation criteria described in the previous sections (and again noted in section 2.7 below) to develop a recommendation.

2.7 Evaluation Criteria

FASS-PH based the Feasibility and Cost Benefit Analysis on the Performance Criteria (section 2.4), the Environment Criteria (section 2.1), and the Assumptions and Constraints (Section 2.5). The evaluation criteria provided by the HUD CIO were also utilized.

2.8 Recommendation

It is recommended that FASS-PH use PIH-REAC's Enterprise Architecture to implement the proposed enhancements. This is a proven architecture that has the power and bandwidth to support the FASS-PH user groups. The following reasons were also considered when making this decision:

- The assumptions and constraints in section 2.1 require the current architecture be utilized
- The FASS-PH is approximately 85% developed. To switch solutions at this point would not be beneficial as HUD would have to reinvest significant money to reach the current status of the system
- The FASS-PH platform is cutting edge and will have a long lifespan, which is required to receive payback
- FASS-PH has shown to be a stable, cutting edge solution that received finalist recognition at the January 2001 OCIO Council Excellence.Gov awards

2.0 Management Summary

3.0 PROPOSED SYSTEM

3.0 Proposed System

3.0 PROPOSED SYSTEM

3.1 Description of Proposed System

The FASS-PH requirements are discussed in Section 1.2 (Scope). The proposed system would be a combination of these requirements plus the current system as of 08/29/2005.

3.2 Improvements

The functional improvements are listed in Section 1.2 and will be further detailed in the FASS-PH Release 8.1.0.0 Functional Requirements Document.

3.3 Time and Resource Costs

The FASS-PH IT Manager maintains the estimated costs for all development activities.

The following labor resources will be utilized to perform the FASS-PH development work.

Position	Number of Resources
Project Manager - Senior	1
Application System Analyst/Programmer - Senior	1
Application System Analyst/Programmer - Intermediate	1
QA Analyst - Senior	1 - PT
QA Analyst (Tester) - Intermediate	1
Software Developer - Senior	3
Software Developer - Intermediate	2
Project Manager – Contract Manager	1 - PT

Note- PT indicates that the resource is billable as Part Time (i.e. less than 40 hours per week).

3.4 Impacts

The following subsections describe the anticipated impacts of the proposed system.

3.4.1 Equipment Impacts

This effort has no scheduled hardware upgrades at this time.

3.4.2 Software Impacts

The current system will be updated as described in Section 2.3, Functional Objectives. Several infrastructure upgrades that would affect FASS-PH are planned and scoped for this release.

3.0 Proposed System

3.4.3 Organizational Impacts

The impacts on HUD and the System users are documented by proposed functionality below:

Function	Operational Impact(s)
Added ability to view prior submission year comments while review current year's submission.	This will allow reviewers of prior years comments, which often reflect continuing, or chronic problem areas, without switching to the previous submission data on the FASS-PH screens.
Allow "N/A" on Line Item G4200-050 for Non A-133 Unaudited submissions	Several "workarounds" currently in use will be eliminated, thereby reducing the analysts' need for special attention to these problem areas.
Allow for Opinion on the Fund identified on the DCF Financial Statement Line Item G3000-010	This provides a more descriptive and concise description for G3000-010 for the auditors.
Alter Financial Review Instructions	This provides a more descriptive instructions for the external users.
New logic will be in place, so that the external user will not be able to enter any amount on Line Item G1102. This new methodology should begin for all 9/30/2005 submissions.	Debt Principal Payments – Enterprise Funds are no longer needed for Fiscal Year 9/30/2005 submissions and forward.
Modify the FASS Analyst column of the External (only) Inbox to display the name of the Analyst	The director's name should never be displayed. Only the analyst or manager name will be displayed.
Repair the FDS report page to print correctly from MS Internet Explorer	Provide the capability to successfully print the Financial Data Schedule (FDS) report.
All file attachments in FASS-PH assessments must now be stored in the database	All FASS-PH attachment files are now being stored in the database instead of storing them on PDUMP
WASS – Remove Check Box for Guest Users	FASS-PH will determine if the user is assigned a guest role code or another role code

3.4.4 Operational Impacts

The following table lists the operational considerations and their impacts to the FASS-PH Release 8.1.0.0 schedule.

Operational Considerations	Impacts
User Operating Procedures	See Section 3.4.3 above for details.
Operating Center Procedures	There is no anticipated impact on the operational center procedures.
Operating Center/User Relationships	There is no anticipated impact on the operational center/user relationships.
Source Data Processing	There are no anticipated impacts at this time.
Data Entry Procedures	There is no anticipated impact on the data entry procedures.
Data Retention Requirements	This release will have no impact on Data Retention.
System Failure Contingencies and Recovery Procedures	These issues are address in the approved FASS-PH Security Assessment documentation.

3.4.5 Developmental Impacts

At this time, FASS-PH has the appropriate development resources to implement the proposed functionality on the current Enterprise Architecture, as well as to maintain the current functionality already implemented.

3.0 Proposed System

3.4.6 Site or Facility Impacts

There are no anticipated site or facility impacts at this time.

3.4.7 Security and Privacy Impacts

Security and Privacy impacts are outlined in the approved FASS-PH Security Assessment documentation and the FASS-PH Release 8.1.0.0 Define and Design Phase deliverables.

3.5 Rationale for Recommendations

PIH-REAC already has an integrated, Enterprise Architecture and will continue to use that architecture for the following reasons:

PIH-REAC/HUD Enterprise Architecture	
Analysis	Rationale
Cost- Development	PIH-REAC has extensive experience developing in the current architecture and has resources with a deep knowledge and understanding of the platform.
Cost- Deployment	The Enterprise Architecture minimizes deployment costs over comparable LAN, mainframe, or client server architectures. The Internet architecture allows software to be updated only on the Web Farm with no necessary changes to the user's computers. Users only need to have a web browser, which is part of the standard HUD environment and may be downloaded for free from providers.
Cost- Training	Training is minimized, as users are typically familiar with the Internet browser environment. Training may also be provided via the Internet and accessed at all times by the users. PIH-REAC has a training portal to promote this capability.
Performance - Availability	PIH-REAC has instituted a stable Web Farm architecture with HUD IT. This allows users to access the system almost 24 hours per day, with only upgrades requiring any downtime. This architecture has demonstrated its abilities to handle peak loads.

4.0 ALTERNATIVE SYSTEMS

4.0 Alternative Systems

4.0 ALTERNATIVE SYSTEMS

PIH-REAC has already established Enterprise Architecture and a FASS-PH baseline. It is recommended that FASS-PH continue to use PIH-REAC's Enterprise Architecture to implement the proposed enhancements. This is a proven architecture that has the power and bandwidth to support the FASS-PH user groups. It is also a development environment where we have much experience and expertise, making the effort less expensive. The following reasons were also considered when making this decision:

- The project assessed alternatives at the beginning of the overall effort in 1998. The team determined at that time to use the HUD/PIH-REAC Enterprise Architecture
- The assumptions and constraints in section 2.1 require the current architecture be utilized
- The FASS-PH is approximately 85% developed. To switch solutions at this point would not be beneficial as HUD would have to reinvest significant money to reach the current status of the system
- The FASS-PH platform is cutting edge and will have a long lifespan, which is required to receive payback
- FASS-PH has shown to be a stable, innovative solution that received finalist recognition at the January 2001 OCIO Council Excellence.Gov awards

As a result, all current and future efforts will utilize this architecture for the reasons stated above. Again, as this system is approximately 85% developed, it is not in the best interest of HUD to change its current approach when FASS-PH has proved to be a model system.